

SEQUENCE LISTING

<110> GENWAY BIOTECH, INC.
Duan, Lingxun

<120> PRODUCTION OF RECOMBINANT MONELLIN USING
METHYLOTROPHIC YEAST EXPRESSION SYSTEM

<130> 46433-20002.00

<140> 09/869,445

<141> 2001-06-26

<150> US 60/114,529

<151> 1998-12-31

<160> 14

<170> FastSEQ for Windows Version 4.0

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<212> PRT

<213> Artificial Sequence

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<223> Peptidyl fragment of the chimeric protein

<400> 1

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
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<400> 2

Gly Gly Gly Ser
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<213> *Saccharomyces cerevisiae*

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Met Leu Leu Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu
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Glu Gly Val Ser Leu Glu Lys Arg Glu Ala Glu Ala Glu Phe
20 25 30

<210> 4
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 <212> DNA
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<220>
 <223> alpha-factor

<400> 4
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<210> 5
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 <212> PRT
 <213> Pichia pastoris

<400> 5
 Gly Gly Trp Glu Ile Ile Asp Ile Gly Pro Phe Thr Gln Asn Leu Gly
 1 5 10 15
 Lys Phe Ala Val Asp Glu Glu Asn Lys Ile Gly Gln Tyr Gly Arg Leu
 20 25 30
 Thr Phe Asn Lys Val Ile Arg Pro Cys Met Lys Lys Thr Ile Tyr Glu
 35 40 45
 Asn Glu Gly Ser Arg Glu Ile Lys Gly Tyr Glu Tyr Gln Leu Tyr Val
 50 55 60
 Tyr Ala Ser Asp Lys Leu Phe Arg Ala Asp Ile Ser Glu Asp Tyr Lys
 65 70 75 80
 Thr Arg Gly Arg Lys Leu Leu Arg Phe Asn Gly Pro Val Pro Pro Pro
 85 90 95

<210> 6
 <211> 291
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 <223> Oligos used for synthesis of the recombinant
 single-chain monellin protein

<400> 6
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 gacgaggaga acaagattgg tcaatacggg agattgactt tcaacaagggt tattagacca 120
 tgtatgaaga agactattta cgagaacgag ggttctagag agattaagggt ttacgagtac 180
 caattgtacg tttacgcttc tgacaagttg ttccgtgctg acatttctga ggactacaag 240
 actcgtgggc gtaagttggt gagattcaac ggtccagttc caccaccata a 291

<210> 7
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide in location M1 in the synthesized
 monellin DNA

<400> 7
 agaattcggg gagggtggaga ttattgacat tgggtccattc actcaaaaact tgg

53

<210> 8
 <211> 55
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 <223> Oligonucleotide in location M2 in the synthesized
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 <210> 9
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 <212> DNA
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 <210> 10
 <211> 53
 <212> DNA
 <213> Artificial Sequence

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 <210> 11
 <211> 59
 <212> DNA
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 <210> 12
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 <212> DNA
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<210> 13
<211> 54
<212> DNA
<213> Artificial Sequence

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<400> 13
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<210> 14
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<212> DNA
<213> Artificial Sequence

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